Form PTC			•		Docket Number (Optional) MSA-010.03 (20974-1003)		lication Number 9/845,129	11	/ED
INFORMATION DISCLOSURE CITATION					Applicant Gordon W. Duff et al.		RECEIVED		
	0,		e several heets if necessary)		Filing Date April 27, 2001	Gro	up Art Unit 1655	EP 19	2001
	SEP	17	2001 ju		U.S. PATENT DOCUMENTS			OCNITER	1600/290
EXAMIN	IER L	[DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	IF APPRO	DATE
A	*	XX.	5,686,246	11/11/97	Kornman et al.	435	6	08/03/95	
		AB	5,698,399	12/16/97	Duff et al.	435	6	04/05/96	
					FOREIGN PATENT DOCUMENTS	I		<u>I</u>	
		DOC	UMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLA YES	NO
		AC	WO 97/25445	7/17/97	PCT				
	-	AD	WO 98/44150	10/8/98	PCT				
		AE	WO 98/15653	4/16/98	PCT				
	-	AF	WO 98/54359	12/3/98	PCT				
		L		OTHER D	DCUMENTS (Includ	ling Author, T	itle, Date, Pertine	l nt Pages, Etc	c.)
		AG	Bailly et al.; " An Intronio 33(11/12):999-1006 (19	c Polymorpi 996)	nic Repeat Sequence Modulates Interleuk	in-1 Alpha Ge	ne Regulation", N	lolecular imr	munology
		АН	Bailly et al.;" Genetic Po	lymorphism	of Human Interleukin-1α", Eur. J. Immu	nol. 23: 1240	-1245 (1993)		
		ΑI	Blakemore et al.; " Asso Clinical Endocrinology an	ciation of Gr nd Metabolis	aves' Disease with an Allele of the Interl m 80(1): 111-115 (1995).	eukin-1 Recer	otor Antagonist Go	ene ", Journ	al of
		AJ	Blakemore et al.; " Interl Erythematosus", Arthriti	eukin-1 Rec s & Rheuma	eptor Antagonist Gene Polymorphism as tism 37(9): 1380-1385 (September 1994	a Disease Sev 4).	verity Factor in Sy	stemic Lupu	s
		AK	Clay et al.; " Interleukin- (1994).	1 Receptor .	Antagonist Gene Polymorphism Associati	ion with Liche	n Sclerosus", Hur	m. Genet. 94	: 407-410
		AL	Copeman et al.; "Linkag Nature Genetics 9: 80-8	e Disequilibr 5(1995).	ium Mapping of a Type 1 Diabetes Susce	eptibility Gene	e (IDDM7) to Chro	mosome 2q	31-q33",
		AM	Cork et al.; " Genetic Co 678 (October 1996)	ontrol of Cyt	okines ; Cytokine GEne Polymorphisms ir	n Alopecia Are	eata ", Dermatolo	gic Clinics 1	4(4): 671-
		AN	Cox et al.; " An Analysis Multiallelic Markers", An	s of Linkage n. J. Hum. 0	Disequilibrium in the Interleukin-1 Gene (Genet. 62:1180-1188(1998)	Cluster, Using	a Novel Grouping	Method for	
V		AO	Guash et al.; " Five Nove 598, (1996)	el Intragenic	Dimorphism in the Human Interleukin-1	Genes Combir	ne to High Informa	ativity", Cyto	okine 8(8):
		AP	Hart and Kornman; " Ge	netic Factor	s in the Pathogenesis of Periodontitis", P	reiodontology	14: 202-215 (20	00).	
	/	ΩΑ	Hurme et al.; " IL-1 Rece European J. Immunol., 2	eptor Antago 18:2598, (19	onist (IL-1Ra) Plasma Levels are co-ordina 198)	ately Regulate	d by Both IL-1Ra	and IL-1B Ge	enes",
1		AR	Kimble et al.;" Interleuki Invest. 93: 1959, (1994	n-1 Recepto	r Antagonist Decreases Bone Loss and B	one Resoption	n in Ovariectomize	d Rats", J. (Clin.

tc		Kornman, KS et al.;" The Interleukin-1 Genotype as a Severity Factor in Adult Personal Disease", J. Clin. Periodontol. 24: 72-77 (1997).
<u>, </u>	AT	Londer and Scionk; "Genetic Dissection of Complex Traits ", Science 265: 2037-2048 (September 30, 1994)
	AV	Mansfield et al.; Novel Genetic Association Between Ulcerative Colitis and the Anti-inflammatory Cytokine Interleukin-1 Receptor Antagonist", Gastioenterology 106: 637-642 (1994).
	AV	McDowell et al.;"A Genetic Association Between Juvenile Rheumatoid Arthritis and a Novel Interleukin-1α Polymorphism", Arthritis and Rheumatism 38(2): 221-228 (February 1995).
	AW	McGuire et al.;"Variation in the TNF-α Region Associated with Susceptibility to Cerebral Malaria", Nature 371: 508-511 (Octobe 6, 1994).
	AX	Nicklin et al.;"A Physical Map of the Region Encompassing the Human Interleukin-1α, Interleukin-1β, and Interleukin-1 Receptor Antagonist Genes", Genomics 19: 382-384 (1994).
	AY	Pociot et al.; "A Taql Polymorphism in the Human Interleukin-1β (IL-1β) Gene Correlates with IL-1β Secretion in Vitro ", European Journal of Clinical Investigation 22: 396-402 (1992)
.	AZ	Andus, T. et al., "IL-1ra genotype 2 is associated with reduced IL-1ra in colonic mucosa", <i>Gastroenterology</i> , 108:A3070 (1996).
	ВА	Andus, T. et al., "Imbalance of the interleukin 1 system in colonic mucosaassociation with intestinal inflammation and interleukin 1 receptor antagonist genotype 2", <i>Gut</i> , 41:651-657 (1997).
	ВВ	Bioque, G. et al., "Allelic polymorphism in IL-1β and IL-1 receptor antagonist genes in inflammatory bowel disease", <i>Clinical and experimental Immunology</i> , 102:379-383 (1995).
		Blakemore, A. et al., "Interleukin-1 receptor antagonist allele (IL1RN*2) associated with neuropathy in diabetes mellitus", <i>Human Genetics</i> , 97:374 (1996).
		Clay, F. et al., "Novel interleukin-1 receptor antagonist exon polymorphisms and their use in allele-specific mRNA assesment", Human Genetics, 97:723-726 (1996).
		Cork, M.J. et al., "An allele in of the interleukin-1 receptor antagonist as a genetic severity factor in alopecia areata", <i>J. Investigative Dermatology</i> , 104:15S-16S (1995).
		Cox, A. et al., "An analysis of Linkage Disequilibrium in the Interleukin-1 Gene Cluster, Using a Novel Grouping Method for Multiallelic Markers", <i>Am. J. Hum. Genet.</i> , 62:1180-1188 (1998).
		Crusius, J.B.A. et al., "Interleukin-1 receptor antagonist gene polymorphism and multiple sclerosis", <i>Lancet</i> , 346:979-980 (1995
	ВН	Cuddihy, R. et al., "Lack of association between alleles of interleukin-1 alpha and interleukin-1 receptor antagonist genes and Graves' disease in a North American Caucasian population" <i>J. of Clinical Endocrinology & Metabolism</i> , 81:4476-4478 (1996).
	ВІ	Diehl, S. et al., "Interleukin-1 genotypes and the risk of early onset periodontitis- a family based study of linkage disequilibrium", Dental Research, 77 Suppl. :195 (1998).
	BJ	Duerr, R.H. et al., "Association between ulcerative colitis and a polymorphism in intron 2 of the interleukin-1 receptor antagonist gene", <i>Gastroenterology</i> , 108:A812 (1995).
	ВК	Eastell, R. et al., "IL-1 receptor antagonist genotype as a predictor of bone loss in postmenopausal women", <i>Bone</i> , 23 (5s):S375 (1998).
	BL	Eastell, R. et al., "IL-1 receptor antagonist genotype is associated with a low bone mineral density in postmenopausal women", Bone, 23 (5S):S375 (1998).
	ВМ	Engebretson, S.P. et al., "The influence of interleukin-1 (IL-1) gene polymorphisms on expression of IL-1β and tumor necrosis factor alpha (TNFα) in periodontal tissue and gingival crevicular fluid", <i>J. Periodontology (1998)</i> .
<u> </u>	BN	Freedman, B. I. et al., "Genetic linkage analysis of growth factor loci and end-stage renal disease in African Americans", <i>Kidney International</i> , 51(3):819-825 (1997). Friedlander, R. M. et al., "Inhibition of ICE slows ALS in mice", <i>Nature</i> , 388:31 (1997). SEP 1 9 20
AC	ВО	Friedlander, R. M. et al., "Inhibition of ICE slows ALS in mice", Nature, 388:31 (1997).

SEP 1 9 2007 TECH CENTER 1600/2900

At	ВР	Gore, E.A. et al., "Interleukin-16 ⁺³⁹⁵³ allele 2: association with disease status in 1,4t periodontitis", <i>J. Clin. Periodontology</i> , 25:781-785 (1998)
	BQ.	Herren, L.T. et al., "IL-1 receptor antagonist as a potential new therapeutic agent for osteoporosis: a computer simulation model of bone remodeling and osteoporosis", <i>Bone</i> , 23 (5S): S620 (1998).
		Hoai, R, et al. Production of mice deficient in genes for interleukin (IL)-1 alpha, IL-1 beta IL-1 alpha/beta, and IL-1 receptor antagonist shows that IL-1 beta is crucial in turpentine-induced fever development and glucocorticoid secretion", J. Experimental Medicine, 187:1463-1475 (1998).
	BS	Hurme, M. et al., Holymorphisms of the IL-1 gene complex in Epstein-Barr virus seronegative and seropositive adult blood donors", Scanding in J. of Immunology, 48:219-222 (1998).
	ВТ	Kees Particular, "Allelic variation at the interleukin-1 receptor antagonist gene is associated with early postmenopausal bone loss at the spine", Bone, 23:367-371 (1998).
	BU	Louis, E. et al., "Cytokine gene polymorphism in inflammatory bowel diseases", <i>Gut</i> , 39:705-710 (1996).
	BV	Mandrup-Poulsen T. et al., "Monokine antagonism is reduced in patients with IDDM", <i>Diabetes</i> , 43:1242-1247 (1994).
-	ВW	McGuire M.K. et al., "Prognosis versus actual outcome. IV. The effectiveness ao clinical parameters and IL-1 genotype in accurately predicting prognosis and tooth survival", <i>J. Periodontology</i> , (1998)
<u> </u>	вх	Muhlberg, T. et al, "Lack of Association of Graves' Disease with the A2 Allele of the linterleukin-1 Receptor Antagonist in a White European Population", European J. of Endocrinology, 138:686-690 (1998).
	ВҮ	deleted from list
	BZ	Okada, H. et al., "Cytokine expression in periodontal health and disease", <i>Critical Reviews in Oral Biology & Medicine</i> , 9:248-266 (1998).
	CA	Stokkers, P.C.F. et al., "Five genetic markers in the interleukin-1 family in relation to inflammatory bowel disease", Gut, 43:33-39 (1998).
	СВ	Suzuki, H. et al., "Interleukin-1 receptor antagonist gene polymorphism in Japanese patients with systemic lupus erythemateous", Concise Communications, 389-390.
	СС	Tarlow, J. et al., "Association between interleukin-1 receptor antagonist (IL-1ra) gene polymorphism and early and and late-onset psoriasis", <i>British Journal of Dermatology</i> , 148-149 (1997).
	CD	Tarlow, J.K. et al., "Severity of Alopecia areata is associated with a polymorphism in the interleukin-1 receptorantagonist gene", J. Invest. Dermatol. 103: 387-390 (1994).
	CE	Tarnow, L. et al., "Polymorphisms in the interleukin-1 gene cluster do not contribute to the genetic susceptibility of diabetic neuropathy in Caucasian patients with IDDM", <i>Diabetes</i> , 46:1075-1076 (1997).
	CF	Clark et al.; "Genomic Sequence for Human Prointerleukin I beta: Possible Evolution from the a Reverse Transcribed Prointerleukin I alpha Gene ", Nucleic Acids Research, 14 (20): 7897-7914 (1986).
	CG	DI Giovine et al., "Single Base Polymorphism at -511 in the Human Interleukin-1ß Gene (IL1ß)", Human Molecular Genetics, 1 (6): 450 (September 1992).
	СН	Clay, et al., "Novel Interleukin-1 Receptor Antagonist Exon Polymorphisms and their use in Allele-specific mRNA Assessement", Hum. Genet. 97 (6): 723-726 (June 1996).
//	СІ	Duff, "Molecular Genetics of Cytokines", The Cytokine Handbook(19940 2 nd ed., chap. 2:21-30.
Aci	CJ	International Search Report Completed on April 04, 2001 and mailed on July 12, 2001
EXAMINER	ا لک	u kr. Chakrabarh 2/25/02
		ial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE